

HPE Networking Comware Switch Series 5150 HI



What's new

- Improved performance and scale: supports up to 396 Gbps bandwidth, 9 member switch stacking, 32K MAC table, improved ARP, ACL, IPv4/v6 unicast and multicast scale.
- High availability: Hot swappable dual power supplies and dual fans, mLAG for link level aggregation and redundancy.
- 6 built-in 10/25 G uplink ports offers competitive platform TCO.
- Comprehensive L3 routing and MPLS features, IPv4/v6 support, L3 multicast support.
- Enhanced security: Trusted Platform Module (TPM) and secure boot, support industry-standard MACsec 256 encryption for end-to-end data link layer security on all ports.
- Standard CLI and Smart Management Center (SmartMC) embedded and ready to use, delivering network visibility, management, and operations at no additional cost.

Overview

The HPE Networking Comware Switch Series 5150 HI is a family of stackable L3 access switches powered by HPE Comware 9 delivering scalability and resiliency for medium and large enterprise campus networks.

With 24 and 48 MACsec-256 enabled 1 GbE downlink ports, 6x10/25 GbE uplinks, hot swappable dual power and fans, and up to 90 watts of 802.3bt PoE per port, this flexible series delivers security and performance for your clients, servers, and IoT devices. Intelligent Resilient Fabric (IRF) stacking up to 9 members adds scale and high availability while Intelligent Network Quality Analyzer (iNQA) supports real-time visibility into network health and performance.

Network visibility, management, and operation tools for this series include standard CLI and the Smart Management Center (SmartMC), embedded and ready to use at no additional cost. The series integrates with HPE Aruba Networking IMC, delivering a centralized point of control for your entire network.

Features

Scalable L3 Access Switches

The HPE Networking Comware Switch Series 5150 HI delivers scalability and enhances reliability of the network with Intelligent Resilient Framework (IRF) technology. IRF stacking enables virtual resilient switching fabrics for simpler, flatter, and more agile networks.

Supports 10 GbE uplinks, static and RIP routing, PoE+, ACLs, and IPv6 for improved and cost-effective network performance.

DRNI enables link aggregation from multiple switches to implement device-level link backup for node redundancy. DRNI also simplifies network topology by virtualizing two physical devices into a logical device.

iNQA helps in measuring network packet loss performance, forward, reverse, and two-way packet loss, including lost number of messages and bytes, message loss, and byte loss rate.

Dual, redundant, hot-swappable power supplies maintain a dynamic and highly available network switch, delivering up to 90W of 802.3bt standards compliant power for cameras, phones, and wireless access points.

Performance with Quality of Service (QoS)

The HPE Networking Comware Switch Series 5150 HI is engineered with non-blocking architecture for low-latency switching. It supports advanced classifier-based Quality of Service (QoS) to group traffic, set priority levels, and rate limit selected traffic on a port, VLAN, or entire switch.

Provides extensive traffic prioritization with strict priority (SP) queuing, weighted round robin (WRR), and SP+WRR.

Broadcast control and limitation of broadcast traffic rate can reduce unwanted network traffic and preserve more bandwidth for critical data.

Energy Efficient Ethernet and energy-saving green design initiatives support your sustainability efforts by automatically reducing power to idle ports and powering down unused ports.

Security with Comprehensive Control

HPE Networking Comware Switch Series 5150 HI supports flexible authentication methods including 802.1X, MAC Authentication and Encryption for greater device security and policy-driven app authentication. Per-user Access Control Lists (ACLs) provide identity-driven security and access control.

Dynamic ARP protection with functions such as ARP Detection and ARP packet validation blocks broadcast from unauthorized hosts and prevents eavesdropping or theft of network data.

Supports industry-standard MACsec 256 encryption for end-to-end data link layer security, providing increased MAC port binding and link group capacity.

Centralized security policy management and network protection with Intelligent Management Center (IMC) which leverages End User Admission Domination (EAD) integrated security policies, network access control and access right control policies to provide a comprehensive integrated security system.

Security with encryption of all access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3, and other features including DHCP protection, IP source guard, dynamic ARP protection, and RADIUS/HWTACAS.

Simplified Management and Operations

The HPE Networking Comware Switch Series 5150 HI can be seamlessly managed with IMC to provide end-to-end network transparency with a consistent network experience through comprehensive configuration, compliance, and policy management.

It supports SmartMC, an embedded network management tool with a web-based GUI to simplify operations and facilitate centralized management. It offers features such as configuration backup, software version management and seamless switch replacement.

RMON and sFlow™ provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events.

Technical specifications	HPE Networking Comware Switch Series 5150 HI
Memory and processor	Arm 1.6GHz dual core CPU 4 GB SDRAM; 4GB flash, 3MB packet buffer
Latency	GE: < 5 μs, 10GE: < 3 μs, 40GE: <1.2μs
Throughput	259 - 295 Mpps, depending on model
Switching capacity	348 - 396 Gbps, depending on model
Routing capabilities	RIP, OSPF, ISIS, BGP, DHCP, VRRP, VRRP PE, ECMP, BFD, IPv6
Stacking capabilities	9 member IRF stack
Management features	HPE IMC Smart MC, command-line interface web browser SNMP manager
Power supply name	PSU: 1+1, hot swappable, 1 min PSU required Fans: 1+1, hot swappable
Input voltage	AC: 90V to 264V, DC: -36V to -72V
Operating temperature	23°F to 122°F (–5°C to 50°C)
Power consumption	Idle: Single AC: 14W, Dual AC: 16W; Single DC:18W, Dual DC: 25W Full Load: Single AC: 53W, Dual AC: 56W; Single DC: 54W, Dual DC: 61W

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